

WHAT IS CLAIMED IS:

1 1. A hinge assembly comprising:

2 a fixing seat having:

3 fixing plate with a fixing hole defined in two distal ends of the
4 fixing plate for connection to a mainframe of an electronic device;

5 a rotation shaft securely connected to the fixing plate and having a
6 limiting flange formed on a mediate portion of the rotation shaft and
7 provided with two notches defined in an outer periphery of the limiting
8 flange; and

9 a limiting disk composed of a first arcuate portion and a second
10 arcuate portion with an inner diameter the same as that of the first
11 arcuate portion and an outer diameter larger than that of the first arcuate
12 portion, the limiting disk having two limiting legs integrally extending
13 downward to be received in the two notches of the limiting flange to
14 position the limiting disk on the rotation shaft; and

15 a rotation seat having:

16 a body rotatably mounted on the rotation shaft and having two
17 tubes formed respectively on two opposite ends of the body, two
18 connection legs each rotatably received in a corresponding one of the
19 two tubes for connection to a monitor of the electronic device and an
20 extension extending downward from a bottom face of the body to
21 selectively engage with either one of the limiting edges of the limiting
22 disk to limit a rotation angle of the body to the fixing plate; and

23 leaf springs mounted on the rotation shaft and an uppermost leaf

1 being riveted to a distal end of the rotation shaft to securely sandwich
2 the body with the limiting disk.

3 2. The hinge assembly as claimed in claim 1, wherein the fixing plate has a first
4 through hole centrally defined therein and having two opposite cutouts defined in an
5 inner face defining the first through hole and the rotation shaft has two fixing feet
6 formed on a bottom face of the rotation shaft to correspond to and be received in the two
7 cutouts in the fixing plate to secure engagement between the rotation shaft and the fixing
8 plate.

9 3. The hinge assembly as claimed in claim 1, wherein the limiting disk has at
10 least one boss formed on a top face of the limiting disk and the body has a second
11 through hole defined to allow extension of the rotation shaft and provided with at least
12 two opposite position recesses to correspond to the at least one boss so that when the at
13 least one boss is received in one of the at least two opposite position recesses, a
14 temporary position effect is provided to the rotation seat.

15 4. The hinge assembly as claimed in claim 2, wherein the limiting disk has at
16 least one boss formed on a top face of the limiting disk and the body has a second
17 through hole defined to allow extension of the rotation shaft and provided with at least
18 two opposite position recesses to correspond to the at least one boss so that when the at
19 least one boss is received in one of the at least two opposite position recesses, a
20 temporary position effect is provided to the rotation seat.

21 5. The hinge assembly as claimed in claim 1, wherein each of the tubes has a
22 limiting block and each of the connection legs has a stop formed to correspond to the
23 limiting block such that rotational movement of the connection legs in relation to the
24 tubes are limited when the stop engages with the limiting block.

1 6. The hinge assembly as claimed in claim 2, wherein each of the tubes has a
2 limiting block and each of the connection legs has a stop formed to correspond to the
3 limiting block such that rotational movement of the connection legs in relation to the
4 tubes is limited when the stop engages with the limiting block.

5 7. The hinge assembly as claimed in claim 4, wherein each of the tubes has a
6 limiting block and each of the connection legs has a stop formed to correspond to the
7 limiting block such that rotational movement of the connection legs in relation to the
8 tubes is limited when the stop engages with the limiting block.